

289280US0XPCT
SEQUENCE LISTING

<110> Sapporo Breweries Ltd.
Eiken Chemical Co. Ltd.

<120> Primers for detection of *Alicyclobacillus* strain

<130> FP04-0384

<150> JP 2003-349772

<151> 2003-10-08

<160> 14

<170> PatentIn version 3.1

<210> 1

<211> 40

<212> DNA

<213> Artificial sequence

<220>

<223> primer

<400> 1
ttgggtttcc ttcggcactg agataccctg gtagtccacg 40

<210> 2

<211> 39

<212> DNA

<213> Artificial sequence

<220>

<223> primer

<400> 2
ataagcactc cgcctgggaa gccccgtca attccttg 39

<210> 3

<211> 19

<212> DNA

<213> Artificial sequence

<220>

<223> primer

<400> 3
gtggggagca aacaggatt 19

<210> 4

<211> 19

<212> DNA

<213> Artificial sequence

<220>

<223> primer

<400> 4
acatgctcca ctgcttgtg 19

<210> 5

<211> 40

<212> DNA

<213> Artificial sequence

<220>		
<223>	primer	
<400>	5	
	acaaggagct ttccactctc caagaaggcc ttcgggttgt	40
<210>	6	
<211>	40	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	primer	
<400>	6	
	tgagacggta ccgagtgagg acgcttgccc cctacgtatt	40
<210>	7	
<211>	17	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	primer	
<400>	7	
	caagcctgac ggagcaa	17
<210>	8	
<211>	18	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	primer	
<400>	8	
	cccagtatt ccggacaa	18
<210>	9	
<211>	43	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	primer	
<400>	9	
	aacacaagta gatgcctacc cgcaatctgc ctttcagact gga	43
<210>	10	
<211>	43	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	primer	
<400>	10	
	ttgaaagatg caactgcattt gctccgttac ctcaccaact agc	43

289280US0XPCT

<210> 11		
<211> 19		
<212> DNA		
<213> Artificial sequence		
<220>		
<223> primer		
<400> 11		
cgAACGGGTG AGTAACACG		19
<210> 12		
<211> 18		
<212> DNA		
<213> Artificial sequence		
<220>		
<223> primer		
<400> 12		
TACGCATCGT CGCCTTGG		18
<210> 13		
<211> 20		
<212> DNA		
<213> Artificial sequence		
<220>		
<223> Primer		
<400> 13		
ATTAGCACCC GTTCCGAGT		20
<210> 14		
<211> 1514		
<212> DNA		
<213> alicyclobacillus		
<400> 14		
AGAGTTGAT CCTGGCTCAG GACGAACGCT GGCAGCGTGC CTAATAATG CAAGTCGAGC		60
GAGCCCTTCG GGGCTAGCGG CGGACGGGTG AGTAACACGT GGGCAATCTG CCTTTCAGAC		120
TGGAATAACA CTCGAAACG GGTGCTAATG CCAGATAATA CACGGGTTAGG CATCTACTTG		180
TGTTGAAAGA TGCAACTGCA TCGCTGAGAG AGGAGCCCAG GGCAGCATTAG CTAGTTGGTG		240
AGGTAAACGGC TCACCAAGGC GACGATGCGT AGCCGACCTG AGAGGGTGAC CGGCCACACT		300
GGGACTGAGA CACGGCCAG ACTCCTACGG GAGGCAGCAG TAGGGAATCT TCCGCAATGG		360
GCGCAAGCCT GACGGAGCAA CGCCGCGTGA GCAGAAGAAGG CCTTCGGGTT GTAAAGCTCT		420
GTTGCTCGGG GAGAGCGACA AGGAGAGTGG AAAGCTCCTT GTGAGACGGT ACCGAGTGG		480
GAAGCCCCGG CTAACTACGT GCCAGCAGCC GCGGTAATAAC GTAGGGGGCA AGCGTTGTCC		540
GGAAATCACTG GGCAGTAAAGC GTGCGTAGGC GGTTGTGTAAGT GTCTGAAGTG AAAGTCCAAG		600
GCTCAACCTT GGGATTGCTT TGGAAACTGC ATGACTTGAG TGCTGGAGAG GCAAGGGGAA		660
TTCCACGTGT AGCGGTGAAA TGCCTAGATA TGTGGAGGAA TACCAAGTGGC GAAGGCGCCT		720
TGCTGGACAG TGACTGACGC TGAGGCACGA AAGCGTGGGG AGCAAAACAGG ATTAGATAACC		780

289280US0XPCT

ctggtagtcc acgccgtaaa cgatgagtgc taggtttgg ggggacacac cccagtgccg	840
aaggaaaccc aataagcact ccgcctgggg agtacggtcg caagactgaa actcaaagga	900
attgacgggg gcccgcacaa gcagtggagc atgtggtttta attcgaagca acgcgaagaa	960
ccttaccagg gcttgacatc cctctgaccg gtgcagagat gtaccttccc ttcggggcag	1020
aggagacagg tggtgcatgg ttgtcgtag ctcgtgtcgt gagatgttgg gttaagtccc	1080
gcaacgagcg caacccttga tctgtttac cagcacgtag aggtggggac tcacaggtga	1140
ctgcccgt aagtcggagg aaggcgggta tgacgtaaa tcatcatgcc ctttatgtcc	1200
tgggctacac acgtgctaca atggcggta caacgggaag cgaagccgcg aggtggagca	1260
aaacctaaaa agccgttcgt agttcggatt gcaggctgca actcgcctgc atgaagccgg	1320
aattgctagt aatcgcggat cagcatgccc cggtaatcc gttccgggc cttgtacaca	1380
ccgcccgtca caccacgaga gtcggcaaca cccgaagtgc gtgaggtaac cgttatggag	1440
ccagccgccc aaggtgggt tgatgattgg ggtgaagtgc taacaaggta gccgtatcgg	1500
aaggtgcggc tgga	1514